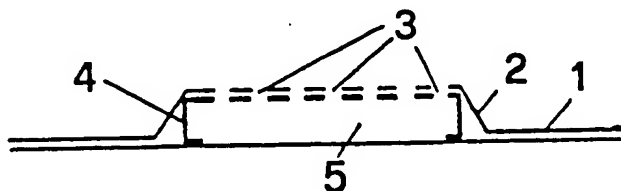




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁴ : A61F 13/02, 15/00	A1	(11) International Publication Number: WO 89/ 04158 (43) International Publication Date: 18 May 1989 (18.05.89)
(21) International Application Number: PCT/IT88/00006 (22) International Filing Date: 22 January 1988 (22.01.88) (31) Priority Application Number: 48594 A/87 (32) Priority Date: 9 November 1987 (09.11.87) (33) Priority Country: IT (71)(72) Applicants and Inventors: CHECCONI, Pietro [IT/IT]; Via Maes, 68, I-00162 Roma (IT). MATTEUCCI, Domenico [IT/IT]; Via Montello, 30, I-00195 Roma (IT). (74) Agent: MASCIOLI, Alessandro: A.N.D.I., Associazione Nazionale degli Inventori, Via Lima, 35, I-00198 Roma (IT).		(81) Designated States: AT (European patent), BE (European patent), CH (European patent), DE (European patent), FR (European patent), GB (European patent), IT (European patent), LU (European patent), NL (European patent), SE (European patent), US. Published <i>With international search report.</i>

(54) Title: A TREATMENT PLASTER WITH AN INCORPORATED DISTANCER



(57) Abstract

The treatment plaster (1) comprises, in the area that gets into contact with the wound and usually provided only with the sterilized gauze, a distancer (4), consisting of a light structure provided with holes (3) like a net and out of materials like plastic, metal, cardboard or similar that will form an inner volume (5) below the plaster provided with holes for the free air circulation.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AT	Austria	FR	France	ML	Mali
AU	Australia	GA	Gabon	MR	Mauritania
BB	Barbados	GB	United Kingdom	MW	Malawi
BE	Belgium	HU	Hungary	NL	Netherlands
BG	Bulgaria	IT	Italy	NO	Norway
BJ	Benin	JP	Japan	RO	Romania
BR	Brazil	KP	Democratic People's Republic of Korea	SD	Sudan
CF	Central African Republic	KR	Republic of Korea	SE	Sweden
CG	Congo	LI	Liechtenstein	SN	Senegal
CH	Switzerland	LK	Sri Lanka	SU	Soviet Union
CM	Cameroon	LL	Luxembourg	TD	Chad
DE	Germany, Federal Republic of	MC	Monaco	TG	Togo
DK	Denmark	MG	Madagascar	US	United States of America
FI	Finland				

- 1 -

"A treatment plaster with an incorporated distancer"

The present invention concerns a treatment plaster comprising an incorporated distancer that determines the distance
5 between the area to be protected and the surface of said plaster.

It is already well known that the plasters used for protecting wounds, abrasions and similar from infection, even if
10 having a layer of gauze or similar in that area being in contact with the wound, often prove to be difficult to remove as it may get stuck to the wound due to physiological humours, with painful consequences for the patients and delays in the healing process.

15 Furthermore, through the aeration openings and the thickness of the gauze, usually there is not the sufficient quantity of air and therefore of oxygen requested for a prompt healing.

20 It is the aim of the present invention to realize a treatment plaster that eliminates all above mentioned disadvantages.

25 The aim set forth is reached according to the present invention by means of a treatment plaster of known materials but comprising in that area that gets into contact with the wound usually covered only with the sterilized gauze, a distancer 4, consisting of a light structure provided with
30 holes like a net out of materials like plastic, metal, card-

- 2 -

board or similar, for forming an inner volume below the plaster provided with holes, for the free air circulation.

5 The considerable advantage of the present invention consists in the perfect functioning of the plaster according to the present invention which even if not very encumbersome, as the thickness of the incorporated distancer is of a few millimeters, avoids any contact with the wound or similar and allows a considerable aeration and keeps the internal area
10 protected from dust and atmospherical bacteria.

In a variant, in the area protected by the distancer the layer of sterilized gauze may be provided.

15 The present invention will be described more in detail hereinbelow relating to the enclosed drawings in which some preferred embodiments are shown.

20 Figure 1, shows an axonometric external view of the treatment plaster with incorporated distancer.

Figure 2, shows an exploded axonometric view of the parts forming the plaster of the precedent figure.

25 Figure 3, shows a vertical section of the treatment plaster.

Figure 4, shows a variant of a distancer to be incorporated in a plaster.

- 3 -

Figure 5, shows a plant, a lateral and an axonometric view of a punched plaster that may be folded so as to delimit the area to be protected.

- 5 Figure 6, shows an exploded axonometric view of a variant with a distancer having the shape of a bull of foamy material.

- 10 Figure 7, shows a plant and a section view of a variant of a malleable distancer that may be applied following to a curve determined by a manual pressure, as it is shown in the lateral view of figure 8.

- 15 Relating to the details of the figures, the object of the present invention comprises a plaster 1 of any shape and dimension, provided with a cavity 2 outwardly turned with aeration holes 3, in which a distancer 4 is housed that will form a space 5 in correspondence with the wound or similar to be protected.

- 20 Said distancer 4 may be realized with a small net of plastic material like a parallelepiped structure, or also of different materials and different shapes.

- 25 In a variant, said distancer may consists, as shown in figure 4, of a structure 6 being cylindric or ellipsoidal or rectangular or of any other shape, detached from the base and provided with aeration holes 7 which have the same function that the net of the precedent figures.

- 4 -

In a further variant shown in figure 5, the protection space 5 is obtained without particular rigid structures, but the form of the distancer is determined by the punchings A-B-C-D performed during the realization of the same plaster, so as to obtain, following to the folding and adhesion (D) of the support ribs of a 'wheathered' structure, that will appropriately prevent the contact with the protected area.

10 Said protection area 5, in a variant of cheap realization as shown in figure 6, consists of the inner space of the distancer in the shape of a bull, being parallepiped or cylindric, out of foamy or rubber or expanded lastic materials, while the upper cover consists of the
15 same structure of the plaster, with a layer of gauze or other disinfectant materials 9.

For what concerns the variant of figure 7, plaster 1 has the same structure as a usual one but has, out of
20 one piece by realization, the layer of malleable material 10, that may be manually curved when used and remains in that shape so as to protect the underlying space 5.

25 Above mentioned distancers, of the net 4 kind or with holes 6, may usually be used also single for the protection of wounds and similar, and may not need be inserted into cavity 2 provided in said plaster, but

- 5 -

simply being placed onto the area to be protected and the-
reto fixed with a traditional plaster.

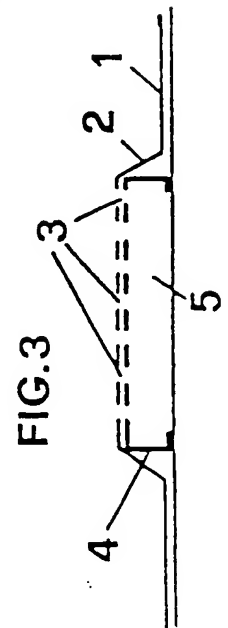
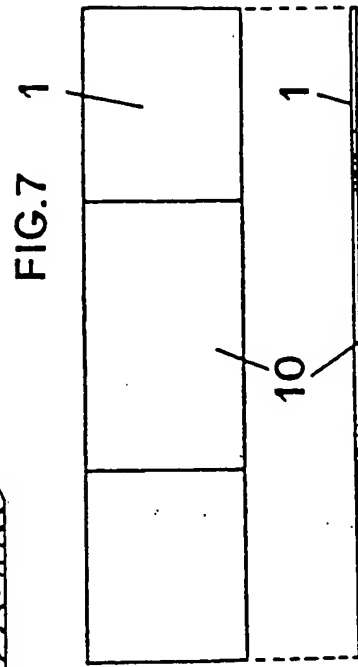
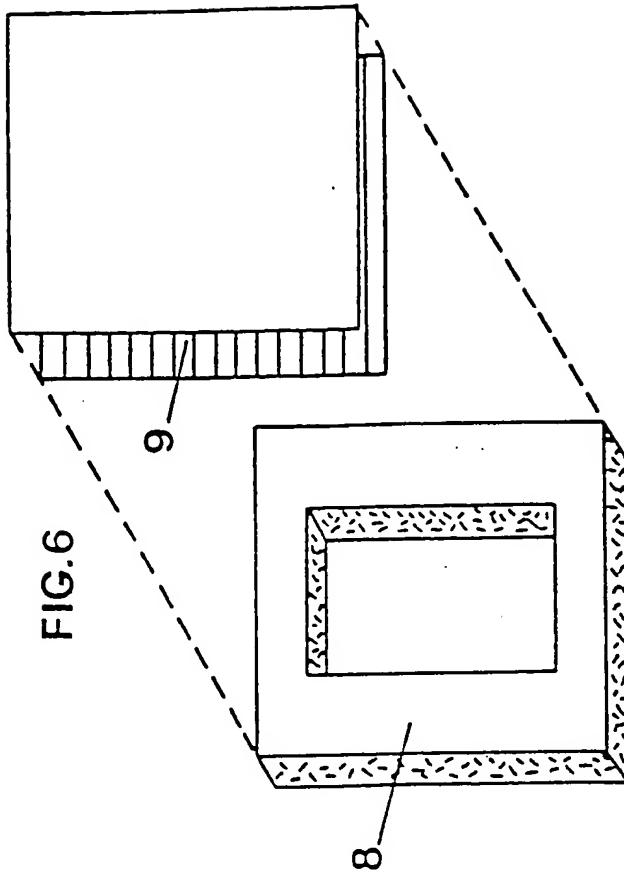
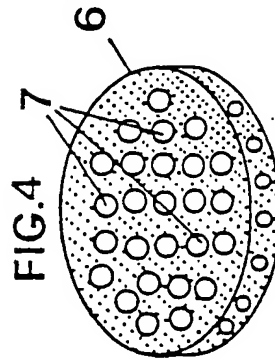
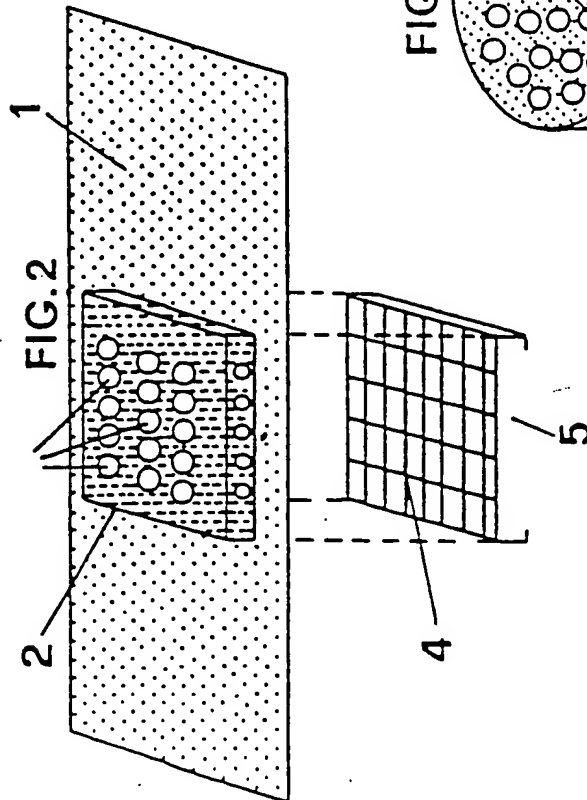
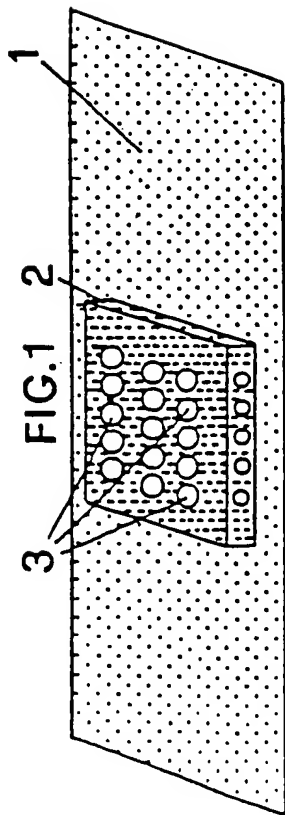
- 6 -

CLAIMS

1. A treatment plaster characterized in that in an outwardly
turned cavity (2), obtained in the plaster's structure, a
5 distancer (4) is housed and fixed for forming and underlying
space (5) in correspondence with the wound or similar
to be protected.
2. A treatment plaster according to claim 1 characterized in
10 that said cavity (2) is provided with aeration holes (3).
3. A treatment plaster according to claim 1 characterized in
that said distancer (4) consists of a net of plastic material provided in a parallelepiped structure.
- 15 4. A treatment plaster according to claim 1 characterized in
that said distancer (4) shows a structure (6) being cylindrical or ellipsoidal or rectangular or of any other shape,
lacking the base and provided with aeration holes (7).
- 20 5. A treatment plaster according to claim 1 characterized in
that said net (4) or hole (6) distancers are applied for
the protection of wounds and similar, without being necessarily inserted into cavity (2) provided in said plaster,
25 but being placed above said area to be protected and thereto fixed with parts of traditional plaster.
6. A treatment plaster according to claim 1 characterized in
that the area (5) is obtained with a 'wheathered' structure.

re obtained by folding and adhesion of punchings (A, B, C and D).

- 5 7. A treatment plaster according to claim 1 characterized in that said distancer that will shape the protection area (5) consists in a parallelepiped or cylindric bull (8) of foamy expanded material, upwardly closed by the layer of disinfectant material (9) and by the same plaster.
- 10 8. A treatment plaster according to claim 1 characterized in that said protection area (5) is obtained following to a curving at the moment of use of the malleable material layer (10) provided in plane, out of one piece with said plaster at the moment of realization.



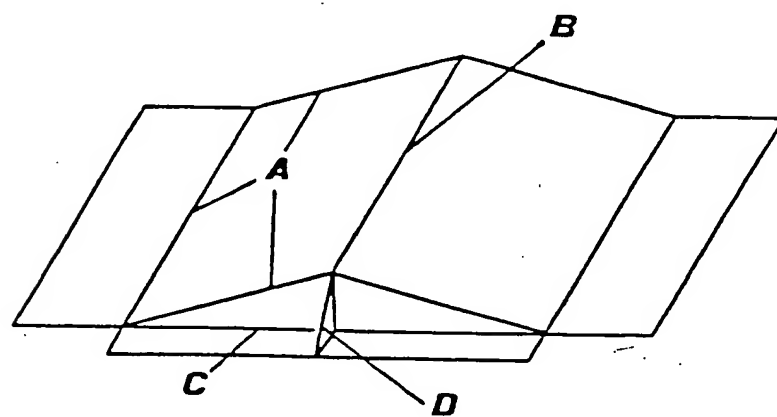
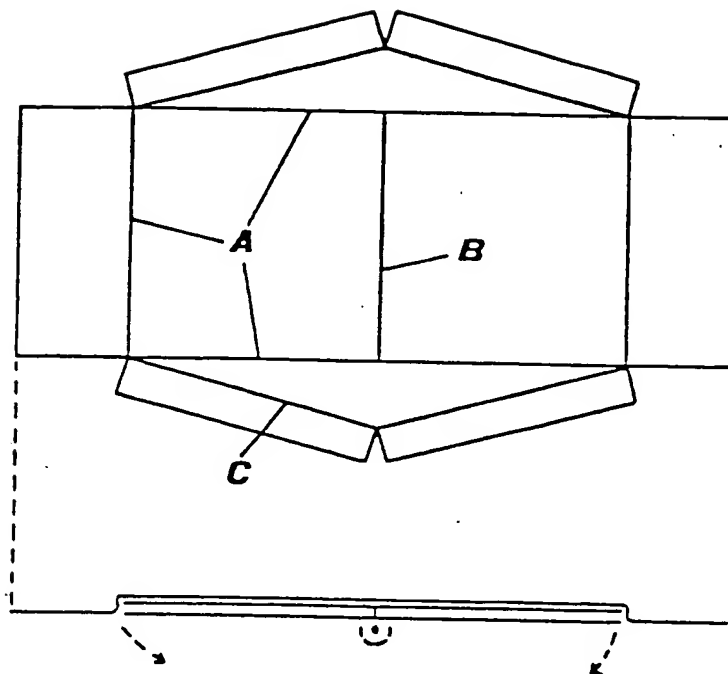


FIG. 5